



November 8, 1968

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02228

Attention: Ed D.

Subject: Control #02228 - Status Report for
Period Ending October 31, 1968

Gentlemen:

During this report period the following tasks have been performed.

1. The specification for the High Power Stereo Comparator Head was revised to include the changes recommended by the technical representative. A copy of this revised specification was mailed to [redacted] on October 2, 1968, with a request for an early written price quotation and delivery date for one unit.

The [redacted] by telephone several times during the October report period to inquire about the status of the Stereo Comparator Head quotation. During an October 10, telephone conversation, [redacted] stated that his company was presently checking to determine if the [redacted] optics would resolve 1200 line pairs/mm at 200X, a requirement of the specification submitted by the [redacted]. If this resolution could be achieved, a written quotation was to be mailed by October 14. An attempt to reach [redacted] by telephone on October 21, failed, but he returned the call on October 25, to notify the [redacted] that the quotation had not, as yet, been mailed. During the ensuing telephone conversation, [redacted] was now concerned about the possibility of parallax in the Stereo Comparator Head, and intended to investigate this problem before submitting a written quotation. As of this writing, the [redacted] has not received a written quotation from [redacted].

2. The design layouts for the following assemblies are nearing completion
 - a. X and Y coordinate stages
 - b. X and Y coordinate precision lead screws and bearing assemblies.

NGA Review Complete

Control #02228
Status Report, contd.

- 2 -

November 8, 1968

- c. Rear section of the overarm
 - d. Comparator base
 - e. X and Y coordinate motor drive assemblies. It was determined during the October report period that the layout of the motor assembly could be redesigned to eliminate the need to manufacture left-hand and right-hand units. The drawing changes required to modify the original design layouts so as to incorporate this feature are presently nearing completion.
 - f. 360° rotary table for the cut film stages.
3. The design layouts for the assemblies listed in the preceding paragraph were sufficiently advanced during this report period to allow a number of detail pattern drawings to be completed.

The pattern drawings listed below were completed during this report period and submitted to the pattern maker for construction of patterns and appropriate core boxes.

- a. X and Y coordinate stages
 - b. Bearing blocks for the X and Y coordinate precision lead screws
 - c. Comparator base
 - d. Rear section of the overarm
 - e. Nut for the X and Y coordinate precision lead screw
 - f. 360° rotary table for the cut film stage.
4. Modified scale mockup of the twin stage comparator to reflect preliminary stereo comparator head layout and location of operator controls on the console as discussed with the technical representative during his visit to the [] on September 27, 1968.
5. Discussed with [] the possibility of modifying the digital control panel to transfer the character readout switches from the electrical component rack to the instrument console. [] stated that the work had progressed beyond the point where this could be done without a change in the scope of the contract. [] did think, however, that this modification could be made on future units if this provision was initially requested in the contract.

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Control #02228
Status Report, contd.

- 3 -

November 8, 1968

- STAT 6. [] mailed a letter to the technical representative on October 11, 1968, requesting the answers to three questions pertaining to the Data Acquisition Specification. An answer to this letter was not received during the October report period, but it is expected that the technical representative will answer them during his planned visit to the [] on November 6, 1968.
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It is estimated that approximately 15% of the work on the twin stage comparator contract has been completed as of this report period.

During the November report period, the [] plans to do the following work.

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STAT 1. The [] will continue its efforts to obtain from [] a written price quotation and delivery date for one Stereo Comparator Head manufactured to the specification submitted October 2, 1968.
2. Complete those design layouts listed under paragraph 2 in the work accomplished portion of this report.
3. Start detail machining drawings for those design layouts completed prior to the end of the November report period.
4. Start a design layout to develop a manual drive for the 360° rotary table motion which will allow the table to be rotated rapidly through large angles without sacrificing the fine setting capability required to align the sample material relative to the stage motions.
5. Check patterns and core boxes as they are received from the pattern maker for dimensional accuracy. Approved patterns will be sent to the foundry so castings may be obtained as soon as possible.
6. The technical representative is scheduled to visit the [] Company on November 6, and 7. Two representatives from the customer's staff and [] have been invited by the technical representative to join in the November 7 discussions. The purpose of this visit is to review the status of the Stereo Comparator Head and modifications to the twin stage comparator mockup as related to human engineering consideration.

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Control #02228
Status Report, contd.

- 4 -

November 8, 1968

A Status of Funds statement will be found at the end of this
report.

Very truly yours,



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Asst. Manager, Engineering

HBB:pc

Attachment

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